

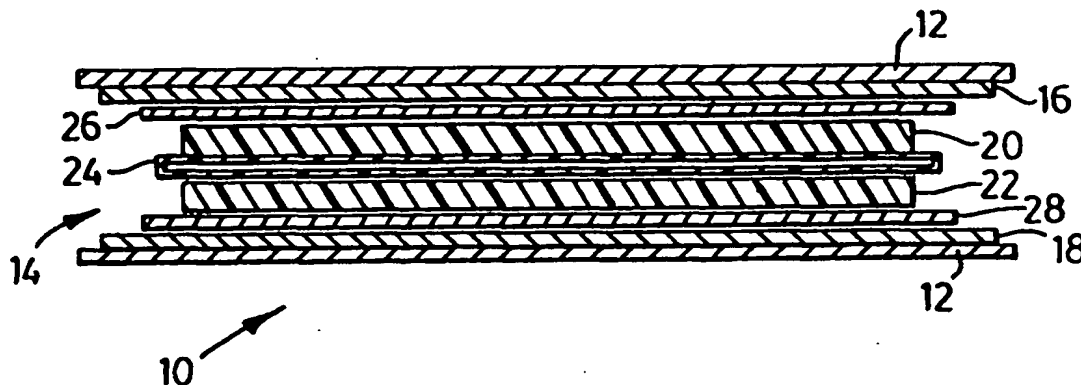
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## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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(21) International Application Number: PCT/CA99/00928 (22) International Filing Date: 13 October 1999 (13.10.99) (30) Priority Data: 2,250,628           13 October 1998 (13.10.98)   CA 2,266,297           19 March 1999 (19.03.99)       CA 2,266,185           19 March 1999 (19.03.99)       CA (71) Applicant (for all designated States except US): SELECT MOLECULAR TECHNOLOGIES CORPORATION [CA/CA]; 1293 Matheson Boulevard, East, Mississauga, Ontario L4W 1R1 (CA). (72) Inventors; and (75) Inventors/Applicants (for US only): BORISENKO, Dmitry N. [RU/RU]; Veyernaya Street, 5/1-152, Moscow, 119501 (RU). BORISENKO, Nikolay N. [RU/RU]; Veyernaya Street, 5/1-152, Moscow, 119501 (RU). (74) Agents: KINSMAN, L., Anne et al.; Gowling, Strathy & Henderson, Suite 4900, Commerce Court West, Toronto, Ontario M5L 1J3 (CA).		(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).  Published With international search report.	

(54) Title: HIGH CAPACITANCE ENERGY STORAGE DEVICE



## (57) Abstract

A high capacitance energy storage device where electrodes (20, 22) are formed of layers of a carbonised, activated woven fabric that has been impregnated with an electrolyte. The electrolyte is absorbed by active centers at the surface of the carbonised, activated material. The prepared fabric is sandwiched between alternating graphite-based separators (16, 18) and non-conductive membranes (24) to form a capacitor structure exhibiting very high capacitance, non-degradation over multiple charging/discharging cycles, and, in AC installations, reliable and reproducible characteristics. In addition, the materials in the device are environmentally friendly.